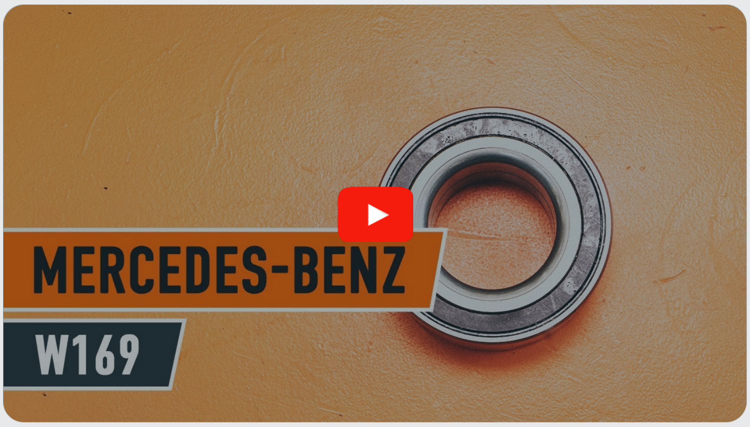
AUTODOC CLUB

How to change front wheel bearing on **Mercedes W169** – replacement guide

VIDEO TUTORIAL

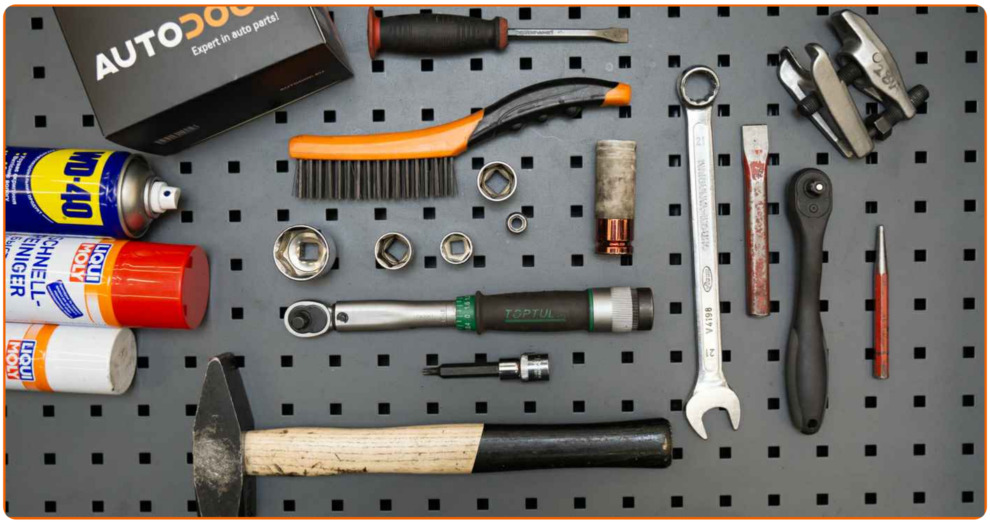


Important!

This replacement procedure can be used for:
MERCEDES-BENZ A-Class (W169) E-CELL (169.090), MERCEDES-BENZ A-Class (W169) A 200 CDI (169.308, 169.008), MERCEDES-BENZ A-Class (W169) A 170 (169.032, 169.332), MERCEDES-BENZ A-Class (W169) A 200 (169.033, 169.333), MERCEDES-BENZ A-Class (W169) A 160 CDI (169.006, 169.306), MERCEDES-BENZ A-Class (W169) A 180 CDI (169.007, 169.307), MERCEDES-BENZ A-Class (W169) A 200 CDI (169.008, 169.308), MERCEDES-BENZ B-Class (W245) B 180 CDI (245.207), MERCEDES-BENZ B-Class (W245) B 200 CDI (245.208), MERCEDES-BENZ B-Class (W245) B 170 (245.232), MERCEDES-BENZ B-Class (W245) B 200 (245.233), MERCEDES-BENZ B-Class (W245) B 200 TURBO (245.234), MERCEDES-BENZ B-Class (W245) B 150 (245.231), MERCEDES-BENZ A-Class (W169) A 200 TURBO (169.034, 169.334), MERCEDES-BENZ B-Class (W245) B 170 NGT (245.233), (+ 5)

The steps may slightly vary depending on the car design.

REPLACEMENT: WHEEL BEARING – MERCEDES W169.
TOOLS YOU NEED:



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Combination spanner #21
- Drive socket # 10
- Drive socket # 18
- Drive socket # 21
- Drive socket # 22
- Drive socket # 30
- Torx bit T30
- Wheel impact socket #17
- Ratchet wrench
- Torque wrench
- Ball joint puller
- Bush and bearing driver set
- Flat chisel
- Flat Screwdriver
- Hammer
- Circlip pliers
- Crow bar
- Wheel chock

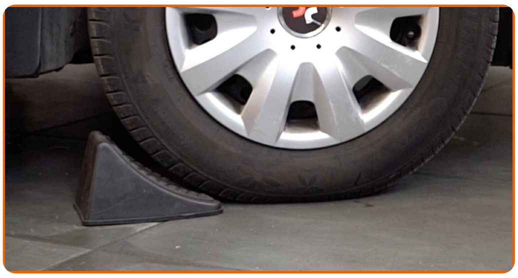
BUY TOOLS

Replacement: wheel bearing – Mercedes W169. Tip from AUTODOC:

- Do not re-use the bearing assembly of your Mercedes W169 car.
- The wheel hub bearing replacement procedure is identical for both wheels on the same axle.
- All work should be done with the engine stopped.

REPLACEMENT: WHEEL BEARING – MERCEDES W169. RECOMMENDED SEQUENCE OF STEPS:

1 Secure the wheels with chocks.



2 Loosen the wheel mounting bolts. Use wheel impact socket #17.



3 Raise the front of the car and secure on supports.

4 Unscrew the wheel bolts.



Replacement: wheel bearing – Mercedes W169. AUTODOC recommends:

- To avoid injury, hold up the wheel when unscrewing the bolts.

5 Remove the wheel.



6 Remove the hub bearing protection cap. Use a flat metal-working chisel. Use a hammer.



Please note!

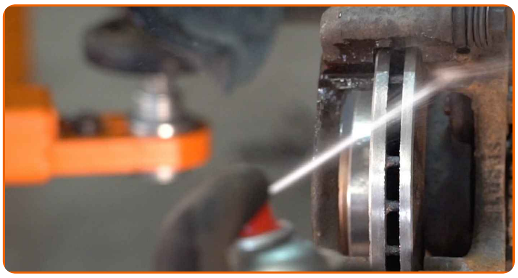
- Some cars are not equipped with wheel hub caps.

7 Clean the wheel hub fastener. Use a wire brush. Use WD-40 spray.

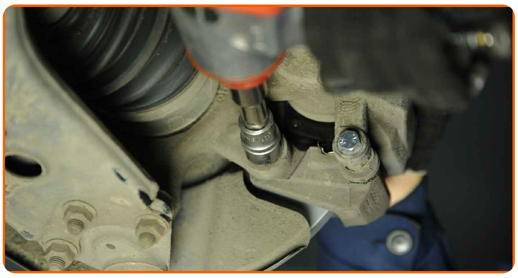
8 Unscrew the wheel hub axle nut. Use a drive socket #30.



9 Clean the brake caliper bracket fasteners. Use a wire brush. Use WD-40 spray.



10 Unscrew the caliper bracket fastening. Use a drive socket #18. Use a ratchet wrench.



11 Remove the brake caliper together with its bracket.



Replacement: wheel bearing – Mercedes W169. Professionals recommend:

- Tie the caliper to the suspension or to the body with a wire without disconnecting from the brake hose to prevent depressurization of the brake system.
- Make sure that the brake caliper is not hanging on the brake hose.
- Don't press the brake pedal after the brake caliper has been removed. As a result, the piston can fall out from the brake cylinder, and brake fluid leakage and depressurization of the system may occur.
- Check the brake caliper bracket, brake caliper guide pins and boots. Clean them. Replace, if necessary.

12 Clean the brake disc fasteners. Use a wire brush. Use WD-40 spray.

13 Unscrew the brake disc fastening. Use Torx T30. Use a ratchet wrench.



14 Remove the brake disc.



15 Clean the fastener connecting the tie rod end to the steering knuckle. Use a wire brush. Use WD-40 spray.

16 Unscrew the end fastening nut to the steering knuckle. Use a drive socket #22. Use a ratchet wrench.



17 Disconnect the tie rod end from the steering knuckle. Use a ball joint puller.



18 Clean the ABS sensor fastener. Use a wire brush. Use WD-40 spray.

19 Unscrew the ABS sensor fastener. Use a drive socket #10. Use a ratchet wrench.



20 Disconnect the ABS sensor.

21 Clean the fastener that connects the ball joint to the steering knuckle. Use a wire brush. Use WD-40 spray.

22 Unscrew the ball joint fastening to the steering knuckle. Use a combination spanner #21.



23 Disconnect the lower arm from the steering knuckle. Use a crowbar. Use a hammer.



24 Clean the fastener of the bracket that connects the brake hose to the shock strut. Use a wire brush. Use WD-40 spray.

25 Remove the bracket from the shock absorber strut. Use a flat screwdriver.



26 Clean the fasteners connecting the shock strut to the steering knuckle. Use a wire brush. Use WD-40 spray.

27 Unscrew the lower fastener connecting the shock strut to the steering knuckle. Use a combination spanner #21. Use a drive socket #21. Use a ratchet wrench.



28 Remove the fastening bolts.

29 Remove the steering knuckle together with the hub.



30 Press the wheel hub out from the tapered roller bearing. Use a bush and bearing driver set. Use a hammer.



31 Remove the retaining ring from the steering knuckle. Use circlip pliers.



32 Press out the wheel hub bearing. Use a bush and bearing driver set.



33 Clean the hub bearing mounting seat. Use a wire brush.



34 Press the new bearing in the steering knuckle. Use a bush and bearing driver set. Use a hammer.



Replacement: wheel bearing – Mercedes W169. AUTODOC experts recommend:

- Check to make sure the wheel hub bearing is positioned correctly. Avoid its misalignment.
- Stop pressing on the surface of the bearing immediately after it has been fitted into its mounting seat.

35 Install the retaining ring in the steering knuckle. Use circlip pliers.



36 Press the wheel hub into the bearing inner race. Use a bush and bearing driver set.



37 Install the steering knuckle with a hub in assembly.



38 Install the fastening bolts.

39 Screw in the fastener that connects the shock strut to the steering knuckle.

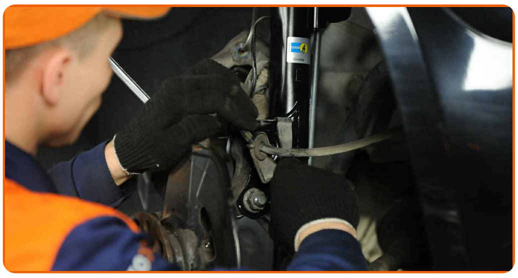
40 Tighten the lower fasteners connecting the shock strut to the steering knuckle. Use a combination spanner #21. Use a drive socket #21. Use a torque wrench. Tighten it to 120 Nm torque.+90°



AUTODOC recommends:

- Important! Be sure to use new fasteners.

41 Install the bracket onto the shock absorber strut.



42 Connect the lower arm to the steering knuckle. Use a crowbar.

43 Tighten the ball joint fastener. Use a combination spanner #21. Use a torque wrench. Tighten it to 50 Nm torque.+60°



AUTODOC recommends:

- Important! Be sure to use new fasteners.

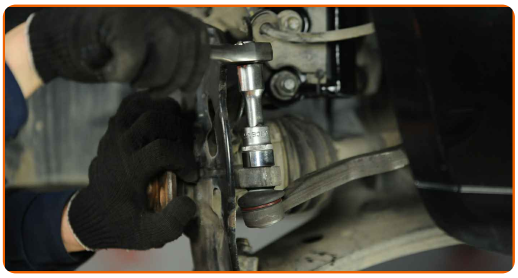
44 Connect the ABS sensor.

45 Screw in the ABS sensor fastener. Use a drive socket #10. Use a ratchet wrench.



46 Connect the tie rod end to the steering knuckle.

47 Tighten the fastening nut connecting the tie rod end to the steering knuckle. Use a drive socket #22. Use a torque wrench. Tighten it to 60 nm torque.



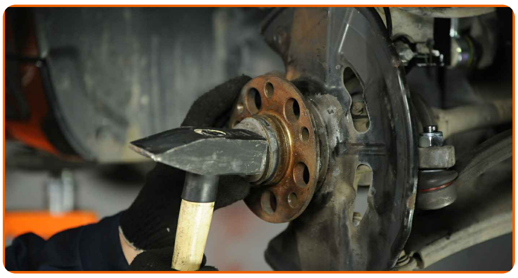
48 Tighten the hub. Use a drive socket #30. Use a torque wrench. Tighten it to 100 Nm torque.+60°



AUTODOC recommends:

- Important! Be sure to use new fasteners.

49 Install the hub bearing protection cap. Use a hammer.



50 Clean the hub. Use a wire brush.

51 Treat the contacting surface. Use copper grease.



52 Install the brake disc.



53 Tighten the brake disc fastening. Use Torx T30. Use a torque wrench. Tighten it to 9 Nm torque.



54 Clean the mounting seats of the caliper and its bracket. Use a wire brush. Use WD-40 spray.

55 Install the brake caliper together with its bracket.



56 Tighten the brake caliper bracket. Use a drive socket #18. Use a torque wrench. Tighten it to 115 Nm torque.



57 Treat the surface where the brake disc contacts the wheel rim. Use copper grease.



58 Clean the brake disk surface. Use a brake cleaner.



AUTODOC recommends:

- Replacement: wheel bearing – Mercedes W169. After applying the spray, wait a few minutes.

59 Install the wheel.



Replacement: wheel bearing – Mercedes W169. Tip:

- To avoid injury, hold up the wheel when screwing in the fastening bolts.

60 Screw in the wheel bolts. Use wheel impact socket #17.



61 Lower the car and working in a cross order, tighten the wheel bolts. Use wheel impact socket #17. Use a torque wrench. Tighten it to 120 nm torque.



62 Remove the jacks and chocks.

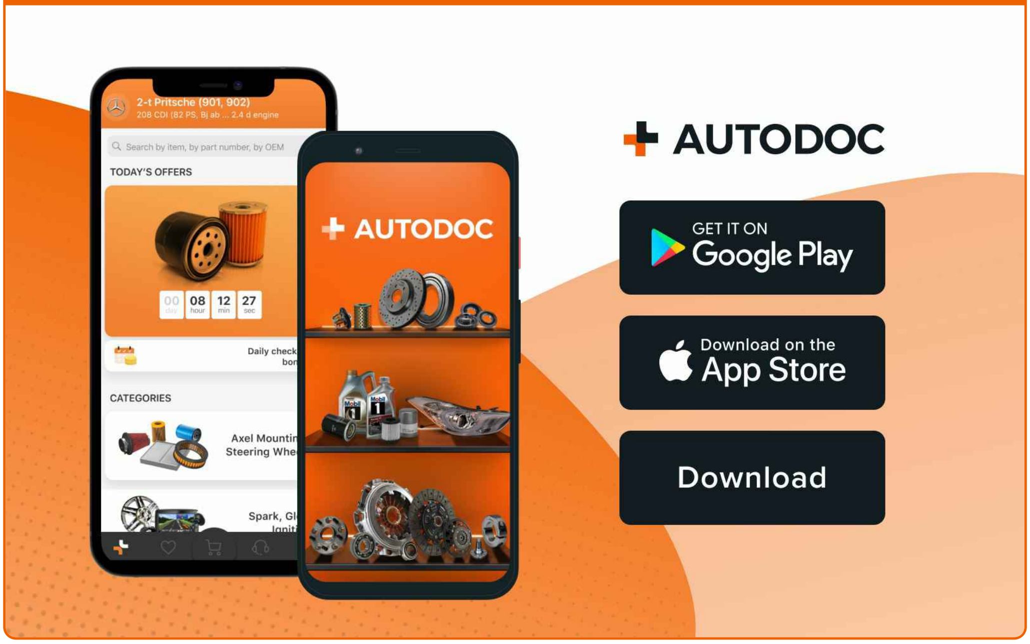


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